Safety Data Sheet

Revision: 3.01 Modified: 2021-09-22

1: Identification of substance / mixture

1. Product Identifier **Substance**

Product Name Tetrabutyl-ammonium Hydrogen Sulfate

Product Code IL-TBAHS CAS Number 32503-27-8

Other Names Tetrabutylammonium hydrosulfate

IUPAC

MFCD Number MFCD00011637

EC/EINECS 251-068-5

REACH Number Index-No

2. Relevant identified uses of the substance or mixture and uses advised against

Research and Development

3. Details of the supplier of the safety data sheet

ISOMERLAB D.O.O. TRZASKA CESTA 297A SI-1000 LJUBLJANA

SLOVENIA



Telephone:

Email:

+38640764332

INFO@ISOMERLAB.COM

4. Emergency telephone number

2. Hazards Identification

1. Classification of the substance or mixture

H302	Acute Tox. 4	
H314	Skin Corr. 1B	
H412	Aquatic Chronic	

2. Label elements

Signal Word **Danger**





Hazard Statements

H302	Harmful if swallowed.	
H314	Causes severe skin burns and eye damage.	
H412	Harmful to aquatic life with long lasting effects.	

Precautionary Phrases

P260	Do not breathe dust/fume/gas/mist/vapours/spray.	
P273	Avoid release to the environment.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.	
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.	
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	
P305 + P351 + P338	P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	

3. Other Hazards

Additional precautionary phrases are located throughout the safety data sheet

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3. Composition / Information on Ingredients

1. Substances

Product Name	Hazards	Concentration			
Tetrabutyl-ammonium Hydrogen Sulfate					
CAS Number: 32503-27-8 EC/EINECS: 251-068-5	, , , , , , , , , , , , , , , , , , , ,	<=100%			

4. First Aid Measures

1. Description of first aid measures

Skin Contact P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin

with water/shower.

Eye Contact P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

Ingestion P301 + P330 + P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Inhalation P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

2. Most important symptoms and effects

There may be irritation and redness.

Severe burns may occur.

3. Indication of any immediate medical attention

No additional measures required

5. Firefighting measures

1. Extinguishing Media

Suitable Carbon dioxide.

> Alcohol resistant foam. Dry chemical powder.

Water.

Unsuitable no data

2. Special Hazards arising from the substance or mixture

In combustion emits toxic fumes of nitrogen oxides.

In combustion emits toxic fumes of cyanide.

In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

3. Advice for Fire Fighters

Wear self-contained breathing apparatus.

Wear protective clothing to prevent contact with skin and eyes.

6. Accidental Release Measures

1. Personal Precautions

Refer to section 8 of SDS for personal protection details.

2. Environmental Precautions

Do not discharge into drains or rivers.

Contain the spillage using bunding.

3. Methods & Materials

Absorb into dry earth or sand.

Use neutralising agent.

Transfer to a closable, labelled salvage container for disposal by an appropriate method.

4. Preventing the occurrence of secondary hazards.

No Special Measures Required

According to Regulation (EC) No. 1272/2008

Language: English

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7. Handling and Storage

1. Personal Precautions

Ensure there is sufficient ventilation of the area. Safe Handling

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P273: Avoid release to the environment.

Protection against

P363: Wash contaminated clothing before reuse.

Keep ignition sources away- do not smoke (smoking kills) explosions and fires

2. Conditions for safe storage, including any incompatibilities

Managing Storage Risks Store in cool, well ventilated area.

> Keep away from sources of ignition. Keep container tightly closed.

Storage Controls No special requirements

Store away from oxidising agents Maintaining Integrity

Keep in tightly closed container in cool area away from direct sunlight or heat sources.

Other advice no further information available

3. Specific End Uses

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

Exposure Controls/Personal Protection

1. Control Parameters

No Data Available

2. Exposure Controls

General protective and hygiene measures

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Wash hands during breaks and at the end of handling the material

Immediately remove any contaminated clothing

Engineering measures Use only in a chemicals fume hood.

Eye / Face Protection Safety Glasses with side-shields.

The selected Gloves have to satisfy the specifications of EU directive 89/686/EEC and the standard Hand protection

EN 374 derived from it.

Respiratory protection P260: Do not breathe dust/fume/gas/mist/vapours/spray.

Skin protection Handle with gloves.

Gloves must be inspected prior to use.

Use proper glove removal technique to avoid skin contact with this product.

Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory

practice.

Wash and dry hands. Protective clothing.

Other personal protection

advice

no data

9. Physical and Chemical Properties

1. Physical and Chemical Properties

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Appearance	Solid
Odour	No Data Available
Odour threshold	No Data Available
PH	1.73

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Melting point / Freezing point	165-175°C
Initial boiling point and boiling range	213.3°C
Flash point	175.6°C
Evaporation rate	No Data Available
Flammability(solid,gas)	No Data Available
Upper/lower flammability or explosive limits	No Data Available
Vapour pressure	No Data Available
Vapour density	No Data Available
Relative density	0.488
Solubility(ies):	No Data Available
Partition coefficient: n-octanol/water	0.96
Auto-ignition temperature	No Data Available
Decomposition temperature	No Data Available
Viscosity	No Data Available
Explosive properties	No Data Available
Oxidising properties	No Data Available

2. Other Information

No additional information available

10. Stability and Reactivity

1. Reactivity

Hygroscopic

2. Stability

Stable under normal conditions.

3. Possibility of Hazardous Reactions

no hazardous reactions known

4.Conditions to Avoid

Moisture

5. Incompatible Materials

Oxidising agents.

Water

6. Hazardous Decomposition Products

In combustion emits toxic fumes.

In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

In combustion emits toxic fumes of sulphur oxides.

In combustion emits toxic fumes of nitrogen oxides.

11. Toxicology information

1. Information

Acute Toxicity Oral LD50 (rat - female) 500mg/kg

Skin corrosion/irritation strong caustic effect on skin and mucous membranes

Serious eye

Damage/irritation

strong caustic effect

Respiratory or skin

strong caustic effect

sensitisation

Germ Cell mutagenicity not known

Carcinogenicity not known

Reproductive toxicity not known

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STOT-single exposure

STOT-repeated exposure

not known

not known

Aspiration hazard not known

2. Additional

swallowing will lead to a strong caustic effect on mouth and throat and the danger of perforation of oesophagus and stomach. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. No classification data on carcinogenic properties of this material is available from the EPA, IARC,NTP,OSHA or ACGIH

12. Ecological Information

1. Toxicity

not known

2. Persistence and degradability

not known

3. Bio-Accumulative Potential

not known

4. Mobility and Soil

Log Pow: 0.96

5. Results of PBT & vPvB assessment

not known

6. Other adverse effects

Do not allow product to reach ground water, water bodies or sewage system, even in small quantities. Harmful to aquatic life with long lasting effects.

13. Disposal Considerations

1. Waste Treatment Methods

Disposal Operations Hand over to authorised disposal company as hazardous waste.

Disposal of Packaging Disposal must be made according to official regulations.

14. Transport Information

Air (ICAO)

1. UN Number: 3261

2. Shipping Name: Corrosive solid, acidic, organic, n.o.s.

3. Transport hazard class(es): : 8 Sub Class:



Packing group: III 4.

5. **Environmental hazards:**

6. Special Precautions for user:

7. Transport in bulk:

Road (ADR)

1. UN Number: 3261

2. Shipping Name: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S (Tetrabutyl-ammonium

Hydrogen Sulfate).

Sub Class: 3. Transport hazard class(es): : 8

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4. Packing group: |||
5. Environmental hazards:
6. Special Precautions for user:

7. Transport in bulk:

Sea (IMDG)

1. UN Number: 3261

2. Shipping Name: Corrosive solid, acidic, organic, n.o.s.

3. Transport hazard class(es): : 8 Sub Class :



4. Packing group: |||5. Environmental hazards:

6. Special Precautions for user:

7. Transport in bulk: IBCINS: IBC08
IBCPPROV: B3

TANKPROV: TP33

15. Safety, health, environmental and national regulations

1. Safety, health, environmental and national regulations:

product is not subject to any additional regulations or provisions

2. Safety Assessment

No Chemical Safety Assessment

16. Other Information

1. Other Information:

ADR: Accord Europeen sur le transport des merchandises Dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by road)

RID:Reglement International concernant le transport des merchandises dangereuses par chemin de fer (Regulations concerning the International transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association

ICAO:International Civil Aviation Organization ICAO-TI: Technical Instructions by the ICAO

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CAS:Chemical Abstracts Service

3. Disclaimer

The product listed is for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this material safety data sheet, or in combination with any other product or process, is the responsibility of the user.